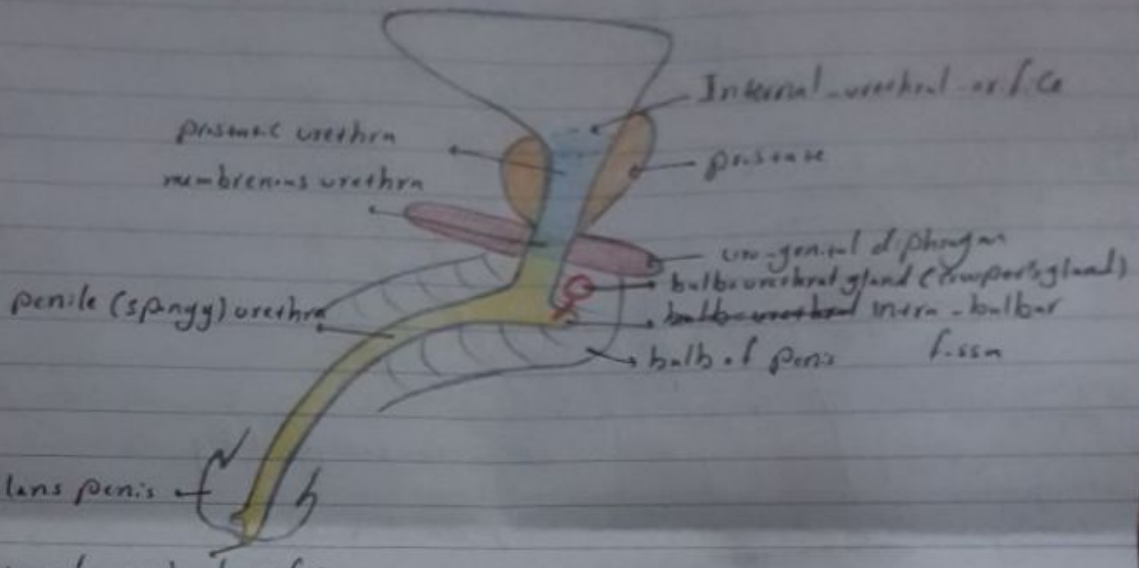
[1]

## ① Male urethra




- length :- 8 inches
- Extension :- from the internal urethral orifice to the external urethral orifice.
- parts :-

① prepostatic part (½ inch) :-
it extends from the internal urethral orifice to the base of prostate

② prostatic part (1½ inch) :-
extends ~~from the~~ within the prostate until the ant surface near from the apex where it emerges.

③ membranous part (½ inch) :- it traverses the deep perineal pouch (uro-genital diaphragm).

④ penile urethra (6 inches) :- it extends from the end of the previous part to the external urethral orifice.

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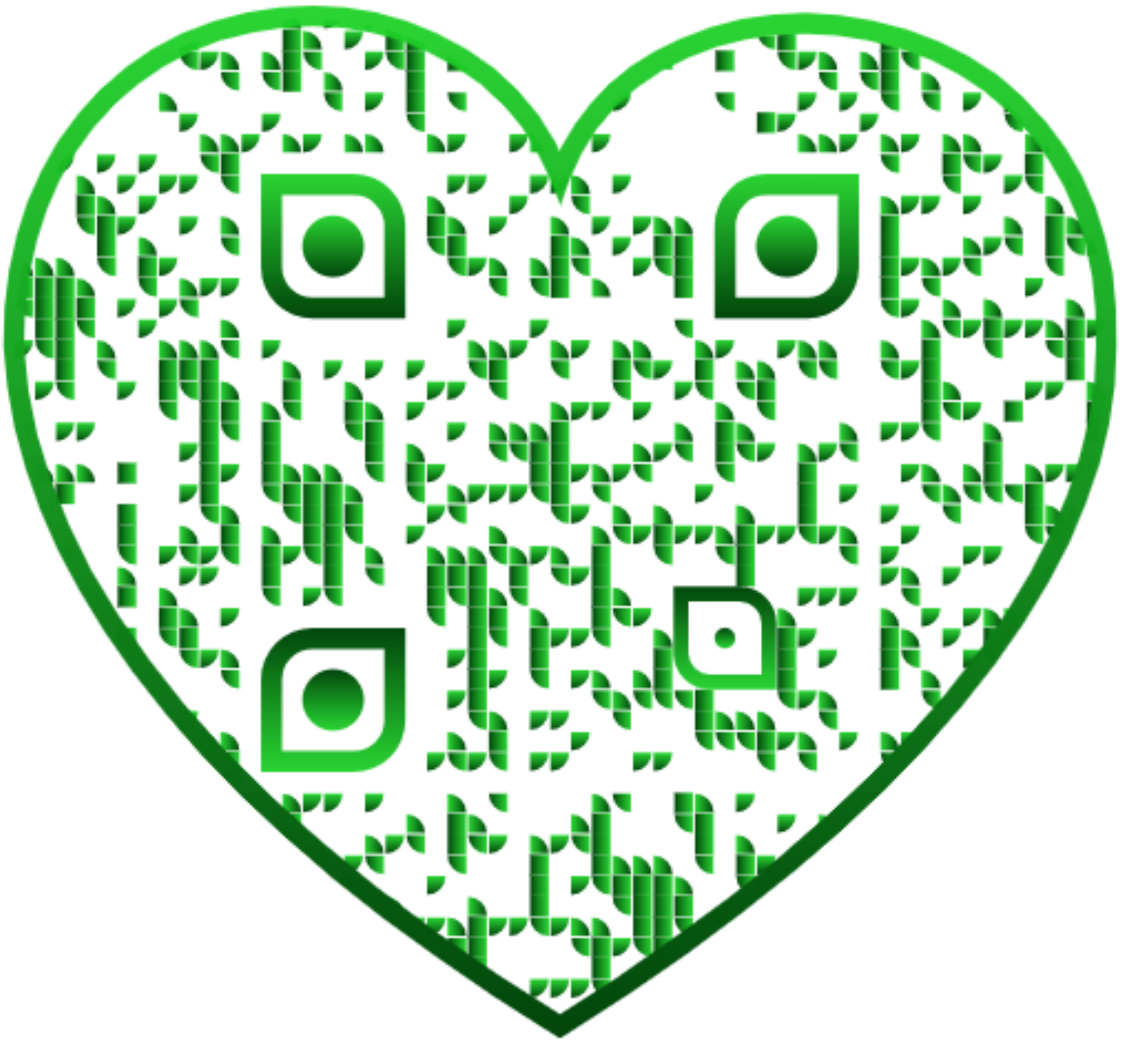
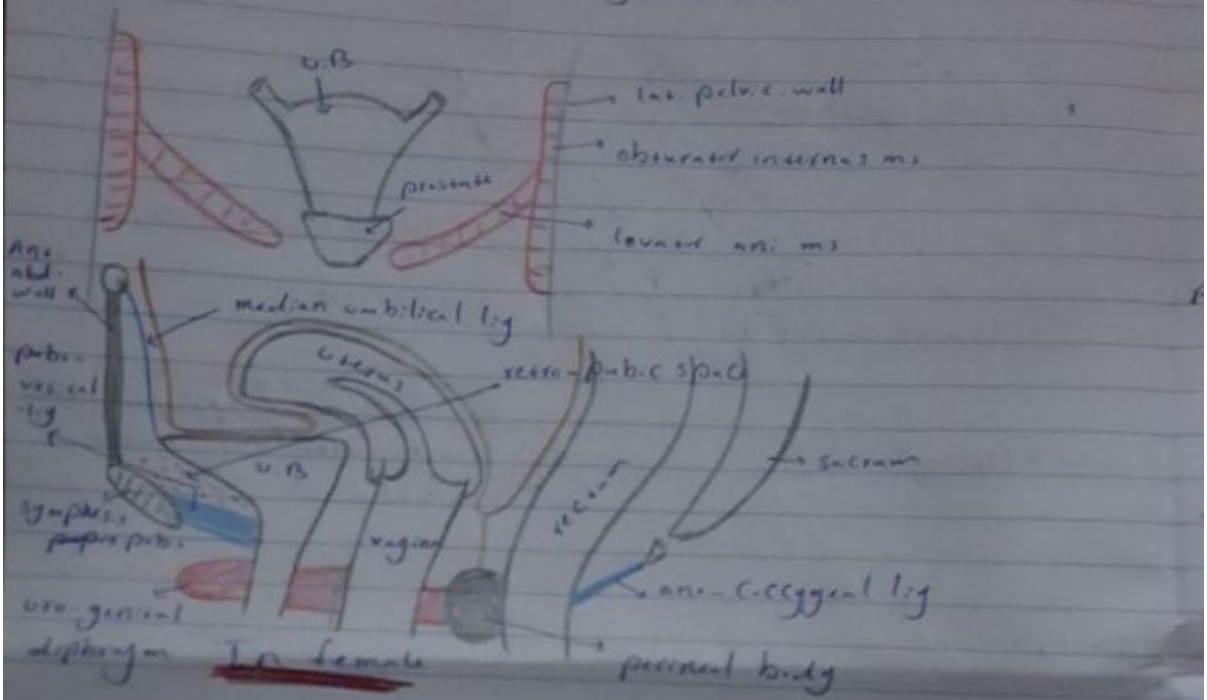


[2]

[2] The relations of urinary bladder




*Apex :- gives attachment to median umbilical lig.

*Inferolateral surface :-

[1] levator ani [2] obturator internus m.

[3] symphysis pubis & recto-pubic space

* Post. surface [covered by peritoneum]

[1] upper part of ant. wall of vagina.

* Ant. border

[1] recto-pubic space [2] symphysis pubis

* Superior surface :- ① [most of this surface is covered by peritoneum] related to ant. surface of uterus & utero-vesical pouch.

② the rest of this surface not covered by peritoneum. In relation with the supravaginal part of cervix.

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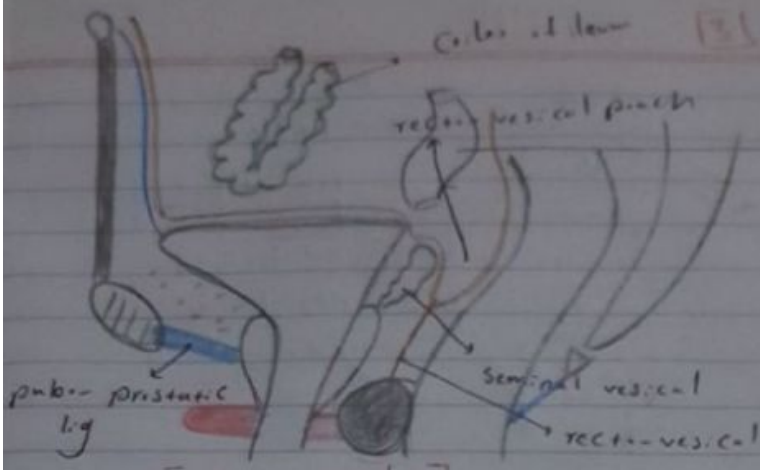



[In male]

* apex
* Ant. border
* Infero-lateral surface

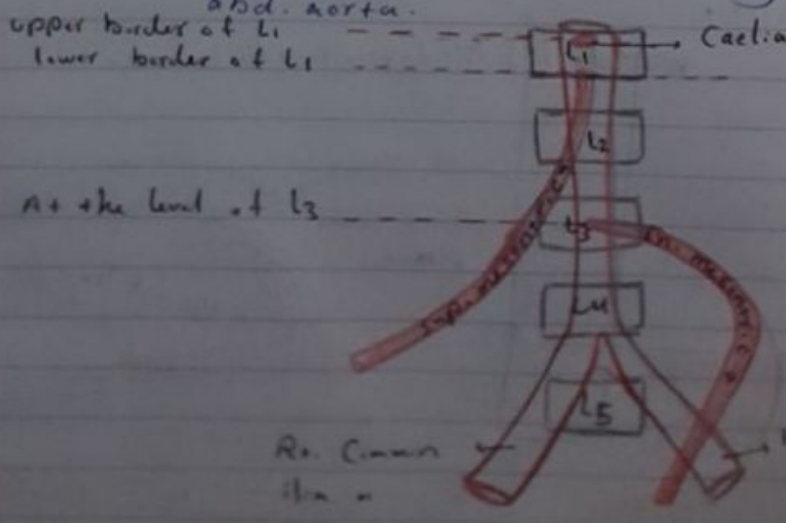
] as in female.

* ~~Post~~ Sup. surface :- Completely Covered by peritoneum.
related to [1] pelvic (sigmoid) Colon
[2] Coiles of ileum.

* post. surface :- [Just the upper part covered by peritoneum]
[1] recto-vesical pouch with sigmoid Colon
[2] seminal vesicle [3] vas deferance. [4] rectum.

[3] enumerate the support of uterus
[1] broad lig [2] Round lig of uterus [3] pubo- Cervical lig.
[4] utero sacral lig. [5] transverse Cervical lig.
[6] ovarian lig.

[4] Branches of internal iliac artery and abd. aorta.




branches of Abd. aorta

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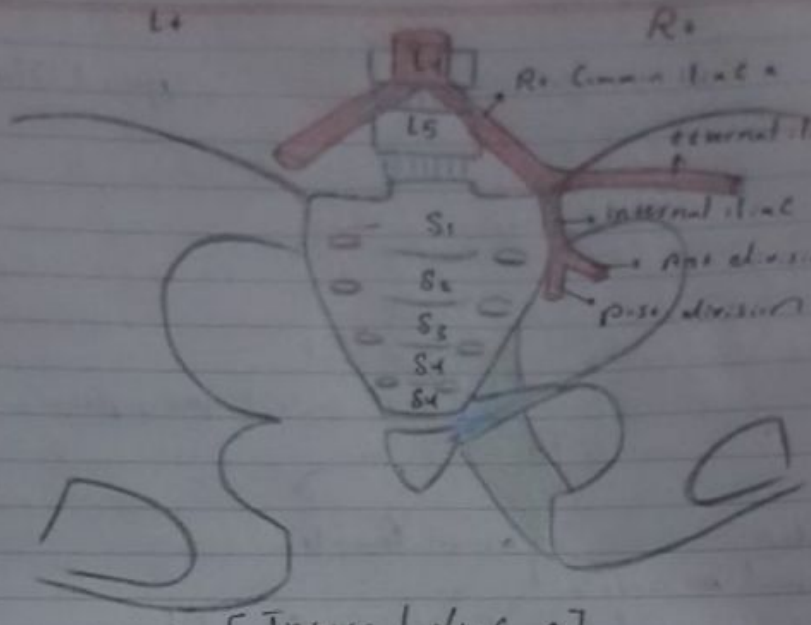



[Internal iliac a]

At the upper border of greater sciatic foramen divide into

Ant. Division

Its branches are :-

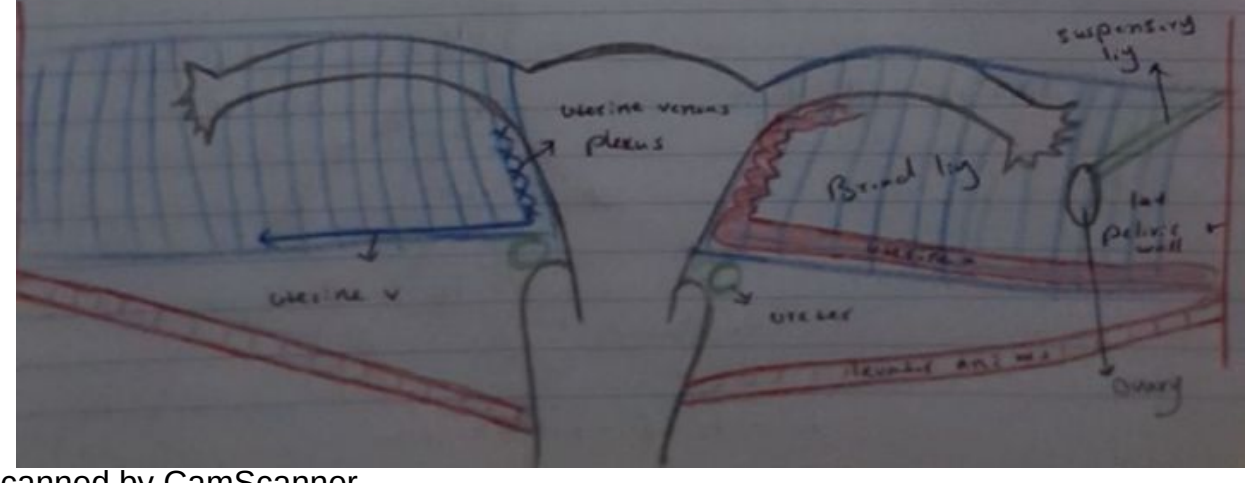
[1] ~~Inferior~~ obturator a.
[2] Inf. gluteal a
[3] Int. pudendal a
[4] uterine a
[5] umbilical a → sup. vesical a
[6] Inf. vesical a
[7] middle rectal a

Post. Division

Its branches are :-

[1] 2 lateral sacral a
[2] ilio-lumbar a
[3] sup. gluteal a

~~[6] Rectal~~ [5] Relation of uterus

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Relation of uterus:-

① fundus:- Completely Covered by peritoneum.

- Above - related to small intestine
- below :- utero-vesical pouch & U.B

② Body:-

- Ant. inferior surface :-

① upper part Covered by peritoneum and related to utero-vesical pouch.

② lower part not Covered by peritoneum and related to the upper surface of U.B.

- Post. superior surface :-

Completely Covered by peritoneum and related to ileum & segmoid Colon.

- lateral borders :-

① In the most upper part → uterine tube & ovarian lig & round lig of uterus.

② on the ~~lower~~ lateral border → uterine a
→ " venous plexus
→ broad lig.

③ Cervix

Ⓐ :- supra-vaginal part

- Ant :-

not Covered by peritoneum and related to U.B.

- Post :-

Covered by peritoneum and related to recto-vaginal pouch and segmoid Colon

- lat :-

Crossed by ureter and uterine a & v

Ⓑ :- vaginal part

- Ant :- Ant fornix
- Post :- Post "
- lat :- lateral fornices

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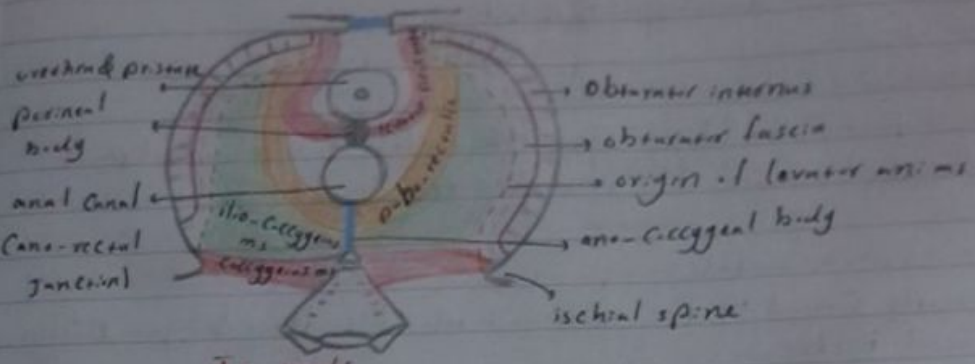
[6] levator ani muscle




In male

levator ani :-

+ origin :- line from :-
[1] pelvic surface of body of pubis.
[2] pelvic surface of ischial spine
[3] white line of obturator fascia.

+ Insertion :-
① levator prostate :- inserted into the perineal body
In female we have sphincter vagina instead.
② pubo-rectalis :- inserted ~~around the anus~~ into the ano-coccygeal body and curve around the ano-rectal junction.
③ ilio-coccygeus ms :- inserted into the ano-coccygeal body (lig) & sides of coccyx.

[7] 5 structures passing on the sacrum from medial to lateral

[1] Sympathetic chain
[2] lumbo-sacral trunk
[3] obturator n
[4] ureter
[5] internal iliac a.

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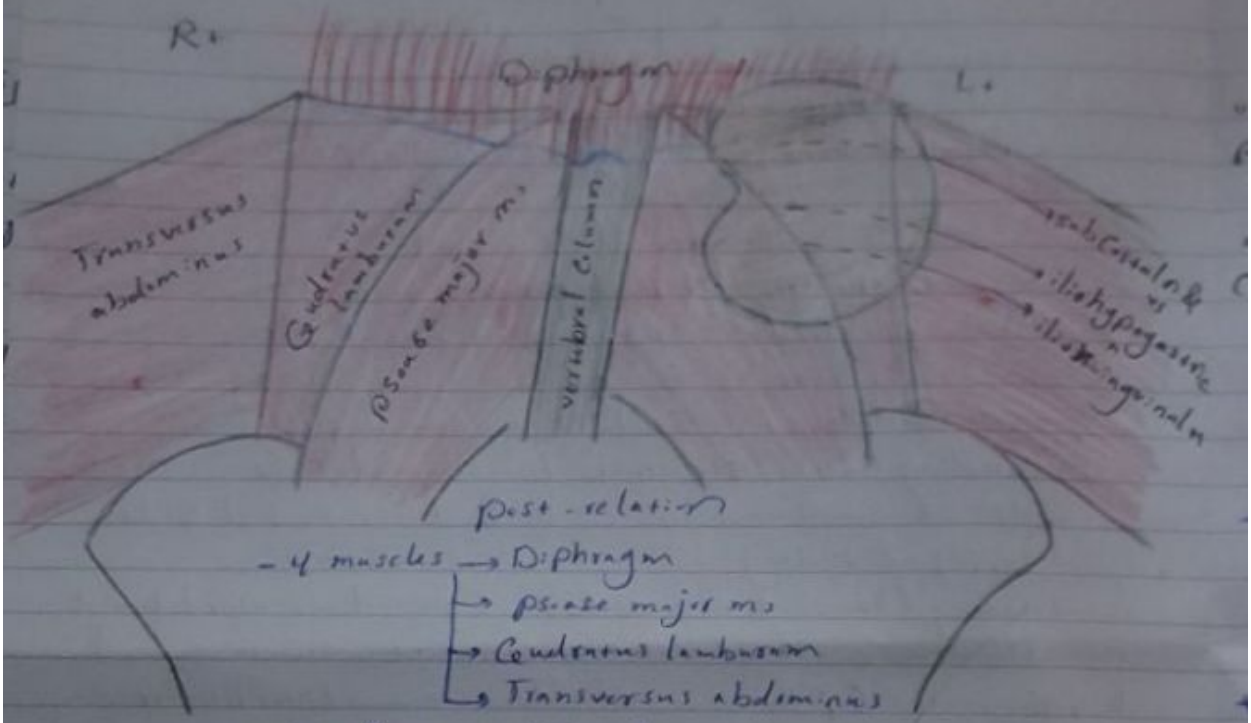
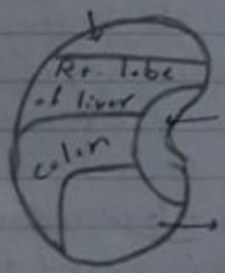
## [8] Relation & Blood supply of kidney




post - relation

- 4 muscles → Diphragm
  - → psoas major ms
  - → Quadratus lumborum
  - → Transversus abdominis
- 4 vs & nn → subCostal n
  - → subCostal vs
  - → ilio hyp. gastric & ilio inguinal nn

Rt. supra-renal gland




Ant. view of Rt. kidney

Rt. supra-renal gland in the uppermost part

2nd part of duodenum :- in the site of hillum and the adjoining area

Rt. lobe of liver :- In the middle between Rt. supra-renal gland and Colon.

Colon :- In the ant. lower lateral area.

Coiles of small intestine :- In the ant. lower medial area

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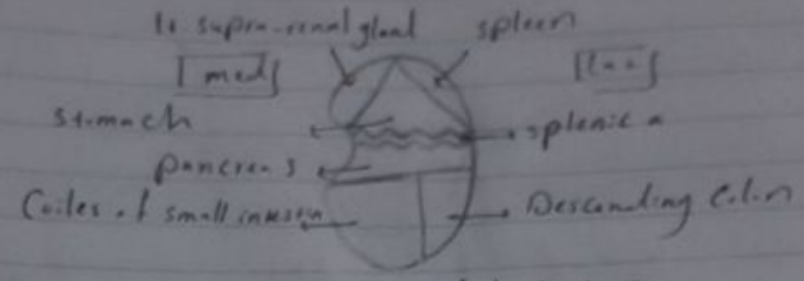


Ant view of lt kidney

- Spleen :- In the upper lateral ~~area~~ area
- Lt. supra-renal gland :- In the upper medial part.
- Stomach :- Include the Δ area
- pancreas & splenic a :- Include the Ant. middle area.
- Descending Colon :- ~~in~~ in the lower lateral side.
- Coiles of small intestine :- in the lower medial side.

* Blood supply of kidney :-

renal artery (branch from aorta $L_2$) → Segmental → interlobar a
→ Afferent a ← interlobular branches ← ~~inter~~ arcute a
→ glomerular Capillaries → ~~of~~ efferent a → Interlobular vv
I.V.C ← Segmental vv ← interlobar vv ← arcute vv

[9] Differences between Rt & lt kidney

Rt. kidney

[1] post. relation :- T12
[2] It's lower end 1½ inches from the iliac crest.
[3] The Ant. relation (~~and~~ discussed above)
[4] medially is related to I.V.C

lt. kidney

[1] related posteriorly to T11 & T12
[2] It's lower end 2 inches from the iliac crest
[3] The Ant. relation (discussed above)
[4] medially is related to Abd. aorta.

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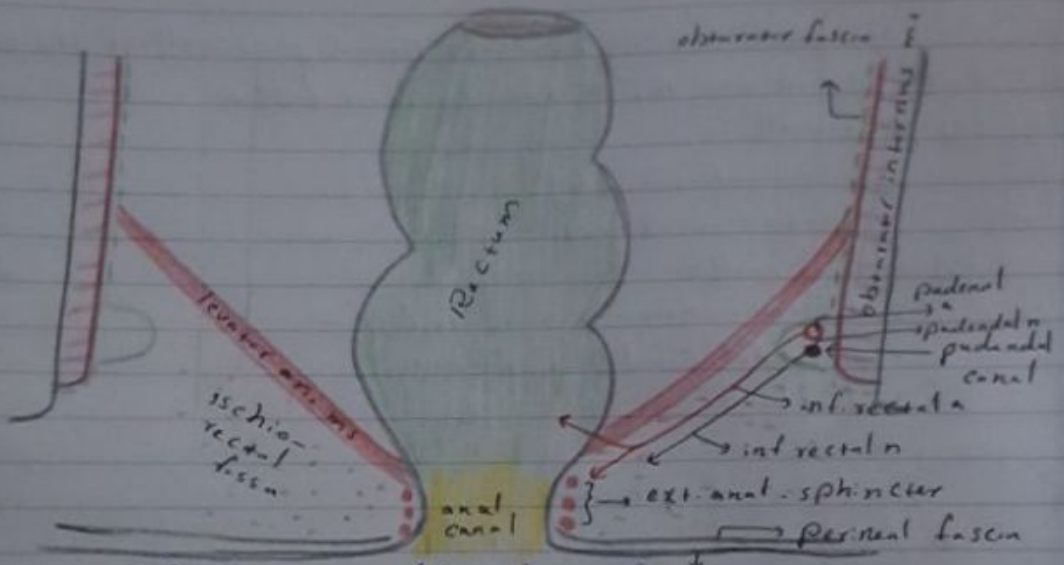
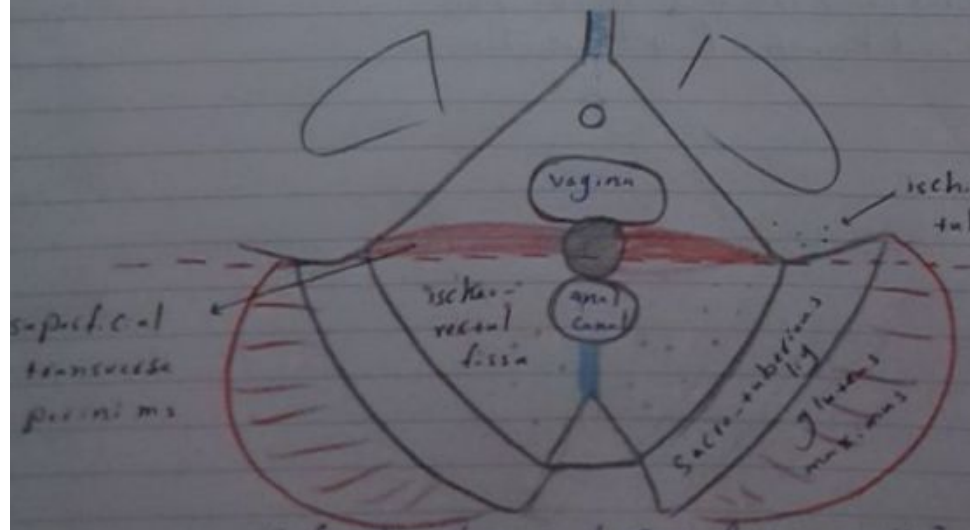
# Ischio-rectal fossa

Definition :- 2 spaces at on both sides of anal canal

Site :- In the anal Δ of perineum




[ for the relation of base & apex & lateral & medial walls ]




[ for the relation of Ant & post walls ]

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* Boundaries :-

[1] Ant. wall :-
Superf. & Deep transversus perinei ms.

[2] Base :-
- skin
- perineal fascia.

[3] Apex :-
the ~~meeting~~ meeting between Ant & post wall at the origin of levator ani ms in the obturator fascia.

[4] post wall :-
- Sacro-tuberious lig
- glutaeus maximus

[5] lateral wall :-
- obturator internus ms & its fascia
- pudendal canal & its contents.

[6] medial wall :-
- levator ani ms
- ext. anal sphincter.

* Contents of ischio rectal fossa :-
[1] isch. - rectal pad of fat.
[2] inf. rectal vessales (branch from int - ~~to~~ pudendal vs)
[3] inf. rectal n (branch from pudendal n)
[4] scrotal ♂ or labial ♀ vessels & nn
[5] perineal branch of 4th sacral n.

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